

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

Amarr Garage Doors 125 Carriage Court Winston-Salem, NC 27105

Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building

Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Model 2400 & 2000 Steel Sectional Garage Doors up to 16'-2" Wide APPROVAL DOCUMENT: Drawing No. IBC-2416-180-26-I, titled "Model 2400 (24 GA), Model 2000 (20 GA)", sheets 1through 3 of 3, dated 05/30/2013, prepared by Amarr Garage Doors, signed and sealed by Tomas L. Shelmerdine, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: A permanent label with the manufacturer's name or logo, 3800 Greenway Circle, Lawrence, Kansas, model number, the positive and negative design pressure rating, indicate impact rated if applicable, installation instruction drawing reference number, approval number (NOA), the applicable test standards, and the statement reading 'Miami-Dade County Product Control Approved' is to be located on the door's side track, bottom angle, or inner surface of a panel.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence page E-1, as well as approval document mentioned above. The submitted documentation was reviewed by Carlos M. Utrera, P.E.



1 2/5/14

NOA No 13-1113.02 Expiration Date: February 13, 2019 Approval Date: February 13, 2014

Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. IBC-2416-180-26-I, titled "Model 2400 (24 GA), Model 2000 (20 GA)", sheets 1through 3 of 3, dated 05/30/2013, prepared by Amarr Garage Doors, signed and sealed by Thomas L. Shelmerdine, P.E.

B. TESTS

- 1. Addendum to Test Report No. **ATLNC 0618.01-13** prepared by American Test Lab, Inc., dated 08/19/2013, signed and sealed by David W. Johnson, P.E.
- 2. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 2) Large Missile Impact Test per FBC, TAS 201-94
 - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 4) Tensile Test per ASTM E8
 - 5) Forced Entry Resistance Test per FBC, TAS 202-94 along with marked-up drawings and installation diagram of 16'-2"x 8' 24 ga steel garage door Model 2400, prepared by American Test Lab, Inc., Test Report No. **ATLNC 0618.01-13**, dated 07/10/2013, signed and sealed by David W. Johnson, P.E.
- 3. Test report on Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments per ASTM D1654 & ASTM B117, prepared by Architectural Testing, Inc., Test Report No. C5463.01-106-18, dated 04/03/2013, signed and sealed by Gary T. Hartman, P.E. "Submitted under NOA # 13-0503.06"

C. CALCULATIONS

1. Anchor calculations prepared by Structural Solutions, P.A., dated 08/20/2013, signed and sealed by Thomas L. Shelmerdine, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

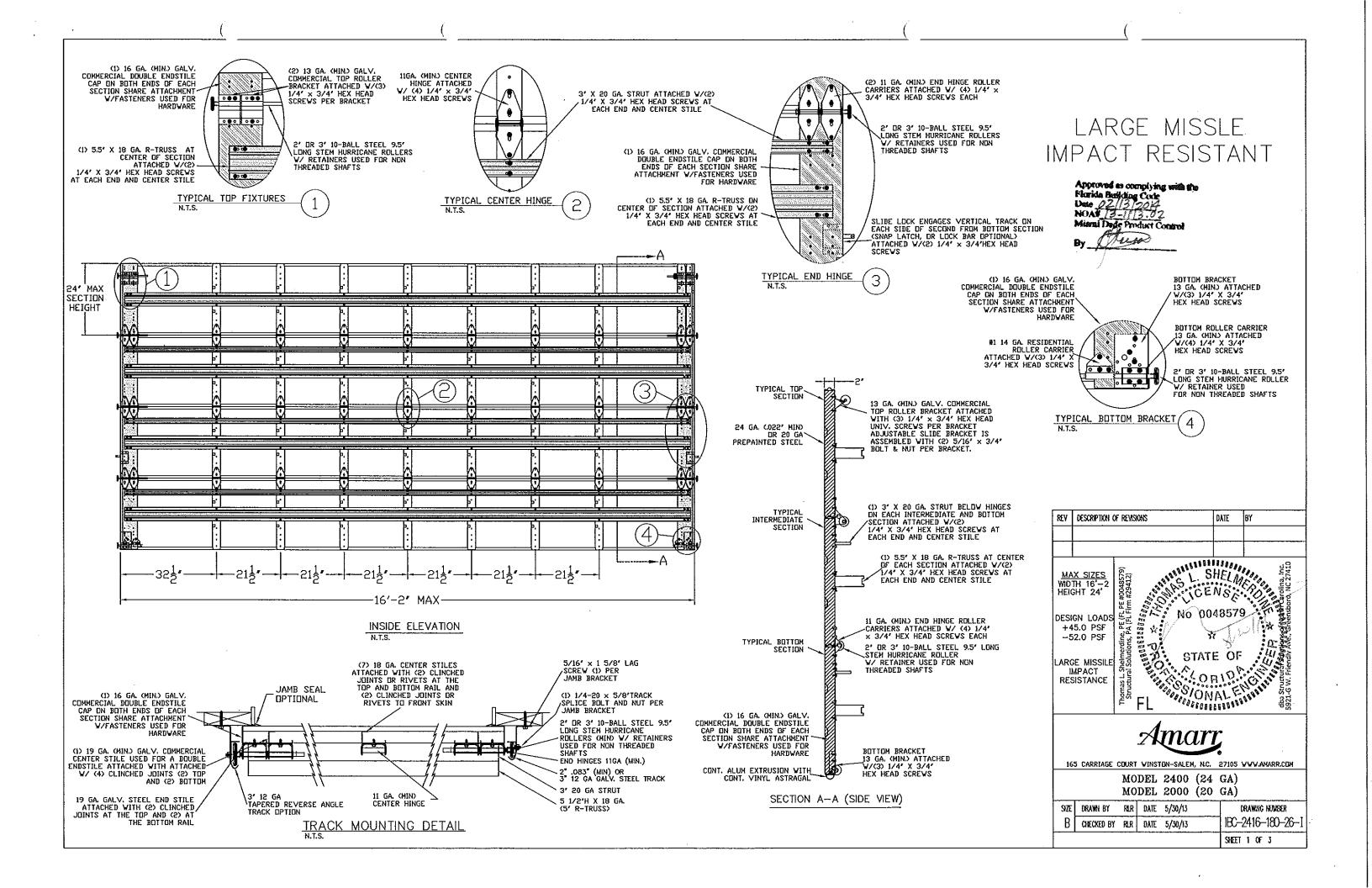
1. None.

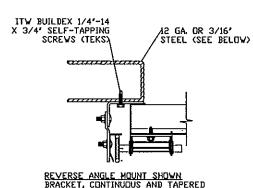
F. STATEMENTS

1. Statement letter of code conformance to 2010 FBC and no financial interest issued by Structural Solutions, PA., dated 08/20/2013, signed and sealed by Tomas L. Shelmerdine, P.E.

Carlos M. Utrera, P.E. Product Control Examiner NOA No 13-1113.02

Expiration Date: February 13, 2019 Approval Date: February 13, 2014

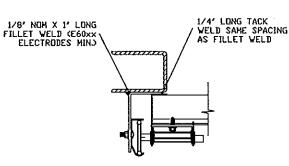




REFER TO NOTES: 1, 2 AND 5

BRACKET, CONTINUOUS AND TAPERED ANGLE MOUNT AVAILABLE 12 GA STEEL FRAMING 232 LBS/SCREV ALLOVABLE LOAD - 3' FROM ENDS AND 6' D.C.

3/16' STEEL FRAMING 569 LBS/SCREV ALLOVABLE LOAD - 6' FROM ENDS AND 18' O.C. REFER TO NOTES! 1, 2 AND 5

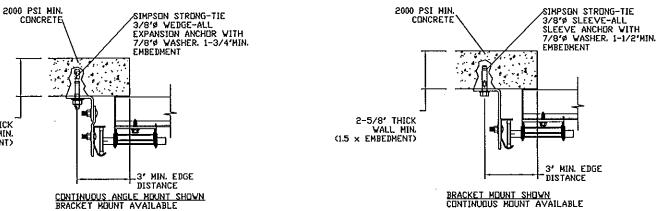


TAPERED REVERSE ANGLE MOUNT SHOWN BRACKET, CONTINUOUS AND REVERSE ANGLE MOUNT AVAILABLE

STEEL FRAMING 12GA OR GREATER 1590 LBS/In ALLOWABLE LOAD - 6' FROM ENDS AND 24' D.C. REFER TO NOTES: 1, 2, 5, 6, 7, 8 AND 9

2-5/8' THICK VALL MIN.

(1.5 x EMBEDMENT)



BRACKET MOUNT SHOWN CONTINUOUS HOUNT AVAILABLE

2000 PSI CONCRETE OR GREATER
351 LBS/EXSPANSION ANCHOR ALLOWABLE LOAD - 6' FROM ENDS AND 10' D.C.
REFER TO NOTES: 1, 2, 3, 4 AND 5

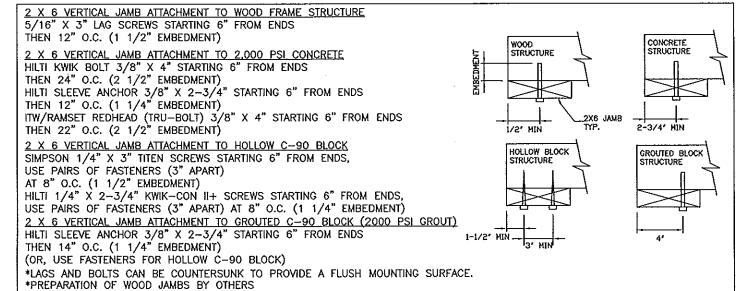
SPECIFICATIONS AND NOTES

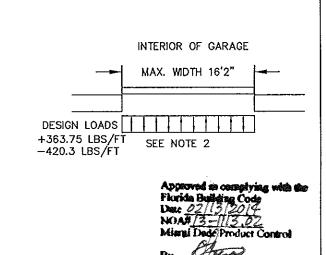
- 1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK, FROM THE TRACK THE LOAD IS TRANSFERRED TO THE VERTICAL JAMBS. THE HORIZONTAL JAMB OR HEADER RECEIVES NO PORTION OF THE LOAD TRANSFERRED FROM THE DOOR.
- 2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +363.75 LBS/FT AND -420.3 LBS/FT
- 3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
- 4. DOOR SECTIONS SHALL BE 24 GA. (.022) MIN. EXTERIOR SKIN ROLLED FORMED, GALVANIZED W/ BAKED ON POLYESTER FINISH
- 5. DOORS UP TO 24' HIGH USE (1) 5 1/2" R-TRUSS PER SECTION AND (1) 3" 20 GA STRUT ON BOTTOM AND INTERMEDIATE SECTIONS
- 6. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.
- 7. MIAMI-DADE CTY APPROVAL REQUIRES THE MANUFACTURER TO DO TESTING OF ALL COILS USED TO FABRICATE DOOR PANELS UNDER THIS NOTICE OF ACCEPTANCE. A MINIMUM OF 2 SPECIMENS SHALL BE CUT FROM EACH COIL AND TENSILE TESTED ACCORDING TO ASTM E-8 BY A DADE COUNTY APPROVED LAB SELECTED AND PAID BY THE MANUFACTURER. EVERY 3 MONTHS. 4 TIMES A YEAR. THE MANUFACTURER SHALL MAIL TO THIS OFFICE: A COPY OF THE TEST REPORTS WITH CONFIRMATION THAT THE SPECIMENS WERE SELECTED FROM COILS AT THE MANUFACTURER PRODUCTION FACILITIES. AND A NOTARIZED STATEMENT FROM THE MANUFACTURER THAT ONLY COILS WITH YIELD STRENGTH OF 30,500 PSI OR MORE SHALL BE USED TO MAKE DOOR PANELS FOR DADE COUNTY UNDER THIS NOTICE OF ACCEPTANCE.

ALTERNATIVE ATTACHMENT NOTES

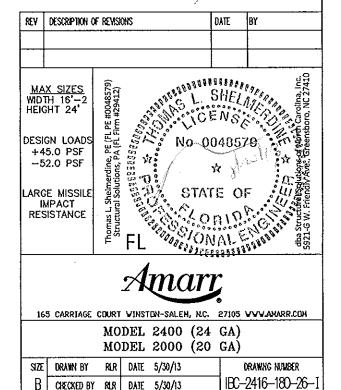
- 1. ANCHORS TO BE EVENLY SPACED BETWEEN THE HEADER AND FLOOR.
- 2. FIRST (BOTTOM) ANCHOR STARTING AT NO MORE THAN HALF OF THE MAXIMUM ON—CENTER DISTANCE. HIGHEST ANCHOR INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING.
 3. MIN. EGDE DISTANCE OF 3" REQUIRED.
- 4. USE WASHERS PROVIDED BY THE ANCHOR MANUFACTURER.
- 5. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS IN ADDITION TO OTHER LOADS.
- 6. MOST GARAGE DOOR TRACK IS GALVANIZED STEEL. USE ALL NECESSARY PRECAUTIONS WHEN WELDING GALVANIZED STEEL.
- 7. ALL WELDS SHOULD BE PERFORMED BY A CERTIFIED WELDER OR INSPECTED BY A CERTIFIED WELDING INSPECTOR TO VERIFY THE INTEGRITY OF THE WELD.
- 8. FILLET WELDS TO HAVE A STRAIGHT OR CONVEX FACE
- 9. TACK WELD TOE OF ANGLE AT SAME SPACING TO PREVENT ROTATION OF TRACK ANGLE.

WOOD JAMB ATTACHMENT TO STRUCTURE (OPTIONAL

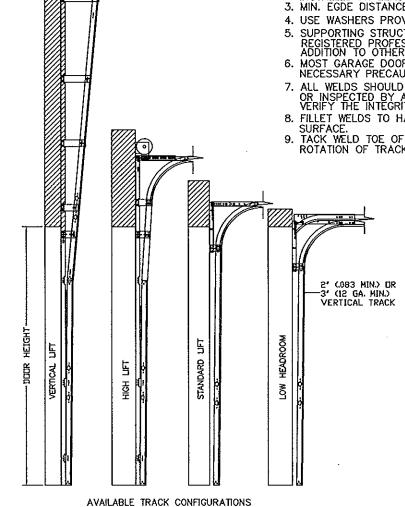


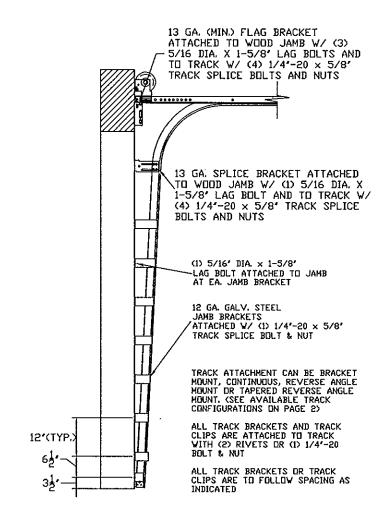


2000 PSI CONCRETE OR GREATER
336 LBS/SLEEVE ANCHOR ALLOWABLE LOAD - 6' FROM ENDS AND 10' O.C.
REFER TO NOTES: 1, 2, 3, 4 AND 5



SHEET 2 OF 3





TRACK CONFIGURATION FOR UP TO 24' TALL DOORS
SEE TABLE 1 ON PAGE 3

TABLE 1

DOOR	₹											TRACK	ATTAC	HMENT		•									TYPICAL
HEIGH	тГ	Α	В	С	D	E	F	G	Н	1	J	K	L.	M	N	0	P	Q	R	S	T	U	V	W	SPLICE
7' 0)*	3.5	10"	22*	34"	46"	58*	70*	n juli	Yey Light	, Zahian	granger.	A wix	Danie y	4,300	JAGA	1,000		. XII.				30.40	A Section	76*
7' 6	3"	3.5	10"	22"	34"	46"	58*	70*																	82*
8' 0)"	3.5"	10"	22"	34"	46"	58"	70"	82"	. interferir	dinas	1 kanana	de Sté	200449	500 75000	Arres			, v. Ny. 118		14.00	70.00	i salygyárai	i gara	88*
8' 6	3"	3.5"	10"	22"	34"	46*	58"	70"	82"					1		i									94*
9' 0)".	3.5"	10"	22*	34"	46"	58"	70"	82"	94"		121.25	112111111111111111111111111111111111111	irrit i	14.1	Sec.		tá am		1: ::::::::::::::::::::::::::::::::::::	7.5		rentese	THE P	100"
9' 6)"	3.5	10"	22"	34"	46"	58"	70*	82"	94"															106"
.10' . 0)"	3.5*	10*	22	34"	46*	58*	70"	82*	94*	106"	1000000	.Ffter:	Mati	ngkinar	is ella			11 (11 11 11	10, 4, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	i izkjiliji iz		\$15000 N	12000	112
11' 0)*	3.5*	10"	22"	34"	46"	58*	70*	82*	94*	106"	118"													124"
12' 0)"	3.5*	10*	22"	34*	46"	58*	70*	82*	94"	106"	118"	130"	ghid	uje ske kij	mpiantig	wage	20000	sirv(sq:San	1000000	njihe.	a chair	wati.	136"
13' 0)"	3.5*	10"	22"	34"	46"	58*	70 *	82*	94*	106"	118"	130"	142"					l						148"
14' 0)"	3.5*	10"	22"	34"	46"	58"	70*	82*	94*	106"	118"	130"	142	154"	Pahas	printess	Philippi	nimevi	graphic	QWMA.	12/15/25	124/308	1300	160*
15' 0)*	3.5*	10"	22"	34"	46"	58*	70*	82"	94"	106"	118"	130"	142"	154"	166"									172"
16' 0)•	3.5*	10"	22"	34*	46"	58"	70"	82*	94"	106"	118"	130	142"	154"	166"	178"		11011					dia da	184*
17' 0)*	3.5*	10*	22"	34"	46"	58"	70*	82*	94"	106"	118"	130*	142"	154"	166"	178"	190"			<u> </u>				196*
18' 0)*	3.5	10"	22"	34"	46"	58°	70"	82*	94*	106"	118"	130"	142	154"	166"	178"	190	202"	skáliu.		miagro	12.50	AAV-	208*
19' 0)"	3.5"	10*	22"	34*	46"	58*	70*	82*	94"	106"	118*	130"	142"	154"	166"	178"	190"	202"	214"					220*
20' 0)"	3.5	10"	22*	34*	46"	58*	70*	82*	94*	106"	118	130	142	154	166"	178"	190"	202	214"	226"	- B.SOM	. Desire	1111111111	232*
21 0)*	3.5"	10"	22*	34"	46"	58"	70"	82"	94"	106"	118*	130"	142"	154"	166*	178"	190"	202"	214"	226"	238		i –	244"
22 0)"	3.5"	10"	22"	34"	46"	58"	70"	82"	94*	106"	118"	130"	142"	154"	166"	178"	190"	202"	214"	226*	238"	250"	10000	256"
23 0	٦-	3.5	10"	22*	34*	46"	58"	70°	82"	94"	106"	118"	130"	142"	154"	166*	178"	190"	202"	214"	226"	238"	250"	262"	268"
24 0)"	3.5"	10"	22*	34*	46"	58"	70"	82	94"	106"	118"	130"	142"	154	166"	178"	190"	202"	214"	226"	238	250"	262"	280*

Approved as complying with the Florida Building Code
Date 02/13/2014
NOA#_/2-/13/2
Miami Dade Product Control
By

REV	DESCRIPTION (F REVISIONS	DATE	8Y				
MA WID HEI		(Fire #0048579)	RELM	Carolina, Inc.				
	IGN LOADS 15.0 PSF 32.0 PSF	and an	7857€ \$\s\\\^	FOR STATE STATE AND STATE OF S				
	GE MISSILE MPACT SISTANCE	Thomas L Sheimerdine, Personal Structural Solutions, PARE	E OF	dba Structural Solutions of North Carolina, Inc. 5921-G W. Friendly Ave., Greensboro, NC 27410				
-1700 01700								

LARGE MISSILE IMPACT
RESISTANCE FLORIDARY FLORIDARY STEELS FOR THE STANDARY STEELS FOR THE STAND